






## INSTALLATION & SAFETY REQUIREMENTS (CONT.)

### Safety symbols

Various safety/warning symbols are marked on the unit. These have the following meanings:

	Refer to the manual for instructions
	Protective earth
	This instrument for ac supply only
	This instrument for dc supply only
	Risk of electric shock

## MAINTAINING PRODUCT SAFETY

### Misuse of equipment

If the equipment is used in a manner not specified in this handbook the protection provided by the equipment may be impaired.

### Preventive Maintenance

Replacement procedures for the fan, for the battery and for the internal fuse (dc supply units only), are included in the handbook included on the CD supplied with the unit.

### Cleaning instructions

A suitable vacuum cleaner may be used to keep the unit and all associated air inlets/outlets clear of dust buildup. The front panel can be wiped with a damp cloth to keep it clean. Mild detergents may be used to remove grease, but abrasive cleaners and aggressive organic solvents must not be used as they can remove the legends and/or damage the plastic labels.

### Safe usage of lithium-thionyl chloride batteries

The battery used for data retention must be stored in a suitable manner, handled and used correctly, and disposed of safely when spent. For further information, the COSHH statement (included in the product manual) should be referred to.

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# Important information Model T800 Visual Supervisor

## UNPACKING THE UNIT

The instrument and any accessories should be unpacked carefully and inspected for damage. The original packing materials should be retained in case re-shipment is required. If there is evidence of shipping damage, please notify the manufacturer or the carrier within 72 hours and retain the packaging for inspection by the manufacturer's and/or carrier's representative.

## PACKAGE CONTENTS

The package contents should be checked against the order codes, using the labels on the components. Product labelling includes:

- a. Outer packaging label. Shows the full instrument order code, instrument serial number (including status level).
- b. Instrument label. Shows the full instrument order code, serial number and hardware build level.

## MANUALS REQUIRED

The Visual Supervisor Handbook (HA261376)(supplied as a pdf file on CD)

Refer also to the 'Related Manuals' list on page 1 of the above Handbook's contents list.

## ALARMS

In order to comply fully with BS EN61010, all I/O and hardware alarms must be enabled.

**INSTALLATION & SAFETY REQUIREMENTS**

Please read the following sections before installing the processor.

**Note:** This unit meets the requirements of the European Directives on Safety and EMC. It is the responsibility of the installer to ensure the safety and EMC compliance of any particular installation.

**Installation requirements for EMC and for safety.**

This unit conforms with the essential protection requirements of the EMC Directive 89/336/EEC, amended by 93/68/EEC and with the European Low Voltage Directive 73/23/EEC, by the application of the safety standard EN61010-1:1993/A2:1995.

This unit satisfies the emissions and immunity standards for industrial environments.

To ensure compliance with the European EMC directive certain installation precautions are necessary as follows:

**General information**

Installation must be carried out only by competent personnel, according to the instructions given in the product manual HA261376. The installation must comply with any relevant national and local regulations in force.

- General guidance. For general guidance refer to the Manufacturer's *EMC Installation Guide* (Part No. HG083635U001).
- Relay outputs. When using the relay outputs it may be necessary to fit a filter suitable for suppressing conducted emissions. The filter requirements depend on the type of load.
- To ensure that immunity and emission requirements are met, screened cable must be used for all communications wiring.
- The supply voltage wiring must be terminated in such a way, that should it slip in the cable clamp, the earth wire would be the last wire to become disconnected.
- Protective Earth. Before any other power input connection is made, the protective earth terminal (see safety symbols section on page 4) shall be connected to an external protective earthing system.

Whenever it is likely that protection has been impaired, the unit shall be made inoperative and advice should be sought from the nearest manufacturer's service centre.

**WARNING!**

Any interruption of the protective earthing system, or disconnection of the protective earth terminal, is likely to make the unit dangerous under some fault conditions. Intentional interruption is prohibited.

**INSTALLATION & SAFETY REQUIREMENTS (CONT.)****Wiring**

It is important to connect the unit in accordance with the wiring data given in the product manual. Wiring installations must comply with all local wiring regulations. Any wiring that is 'Hazardous Live' (as defined in BS EN61010) must be adequately anchored. To minimise the pick-up of electrical noise, communications wiring must be routed away from high-current power cables.

**Disconnecting device**

In order to comply with the requirements of safety standard EN61010, the mains (line) supply shall have one of the following as a disconnecting device, fitted within easy reach of the operator, and labelled as the disconnecting device for the equipment:

- A switch or circuit breaker complying with the requirements of IEC947-1 and IEC947-3
- A separable coupler that can be disconnected without the use of a tool
- A separable plug, without a locking device, to mate with a socket outlet in the building.

**Overcurrent protection**

To protect the unit against excessive currents, the supply voltage to the unit and power outputs must be wired through independent external fuses or circuit breakers. A minimum of 0.5 mm<sup>2</sup> (16 awg) wire is recommended. Independent fuses should be used for the instrument supply and for each relay output. Suitable fuses are T type, (IEC 127 time-lag type) as follows:

- AC supply (85 to 264V ac). Fuse type = 2 Amp Type T
- Relay outputs: Fuse type = 2Amp Type T.
- DC supply option (19 to 32V dc): Fuse type = 5 Amp type T, in each positive supply line.

**Installation category voltages**

The instrument must not be wired to a three-phase supply with an unearthed star connection, as under certain fault conditions the supply could rise above 264V with respect to ground, thus rendering the instrument unsafe.

Voltage transients across the supply connections and between the supply connections and ground must not exceed 2.5kV. Where occasional voltage transients over 2.5kV are expected, or measured, the power installation to both the instrument and to load circuits should include transient limiting devices such as gas discharge tubes or varistors.

**Conductive pollution**

Electrically conductive pollution (e.g. carbon dust, water condensation) must be excluded from any cabinet in which the unit is mounted. To ensure the atmosphere is suitable, an air filter should be supplied in the air intake of the cabinet. Where condensation is likely, for example at low temperatures, a thermostatically controlled heater should be installed in the cabinet.

**Ventilation**

It should be ensured that any enclosure which houses the unit provides the ventilation/heating required to maintain the operating temperature of the unit and the humidity level of its operating environment within its specified limits.